

Use BIM to Construct Building Facility Management System

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Abstract

The main function of the Building Information Modeling (BIM) is to create and use internal common access to project-related information in the life cycle of a building. In this integrated digital environment, the information entered by the former can be retrieved by others for subsequent use. This will help improve project quality, save time, reduce costs and prevent errors. The drawings created in the BIM environment can be linked and retrieved through ODBC to extract related facility information and construct facility management database. The management software can be used to reduce the inconvenience of maintenance, avoid errors, and achieve efficient administration. BIM, ER Model, ASP.net, database and Windows environments are used to develop the "Facility Management System" in this study. The components are identified by building, floor and room for each project. All related facility information, such as basic information, designer, and construction, is set up in the management system. The specification, drawings, checking list, and other documents of the facility are integrated and linked between BIM and the management system. Users can retrieve and display related information in 3D modules to effectively perform management tasks.

Keyword : database, facility management, ER model, building information modeling, SQL server